

# UNITED STATES EPARTMENT OF COMMERCE Patent and Trademark Office

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Washington, D.C. 20231

ATTORNEY DOCKET NO. APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR 09/328,877 06/09/99 **GURNEY** Y 6142.N2-CP **EXAMINER** HM12/0926 PHARMACIA & UPJOHN COMPANY TURNER, S GLOBAL INTELLECTUAL PROPERTY **ART UNIT** PAPER NUMBER 301 HENRIETTA STREET KALAMAZOO MI 49001 1647 **DATE MAILED:** 

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

09/26/00

### Office Action Summary

Application No. 09/328,877

Applicant(s)

Examiner

Sharon L. Turner, Ph.D.

Gurney et al.

Group Art Unit 1647



Responsive to communication(s) filed on _1-18-00	
☐ This action is <b>FINAL</b> .	
☐ Since this application is in condition for allowance except for formal matters, prosecution in accordance with the practice under Ex parte Quay\@35 C.D. 11; 453 O.G. 213.	າ as to the merits is closed
A shortened statutory period for response to this action is set to expire1_ month(s), configure, from the mailing date of this communication. Failure to respond within the period for responding to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under 37 CFR 1.136(a).	ponse will cause the
Disposition of Claim	
X Claim(s) <u>1-41</u>	_ is/are pending in the applicat
Of the above, claim(s)is/a	are withdrawn from consideration
Claim(s)	is/are allowed.
☐ Claim(s)	is/are rejected.
☐ Claim(s)	is/are objected to.
X Claims <u>1-41</u> are subject to re	estriction or election requirement.
Application Papers  See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.  The drawing(s) filed on is/are objected to by the Examiner.  The proposed drawing correction, filed on is approved dia	en -
Attachment(s)  Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No(s). Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-948 Notice of Informal Patent Application, PTO-152 Notice to Comply with Agrence Rules Cutiched Requence error Report.	
SEE OFFICE ACTION ON THE FOLLOWING PAGES	

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#### **DETAILED ACTION**

#### Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-23 and 34-38, drawn to polynucleotides, classified in class 536, subclass 23.1.
  - II. Claims 24-32, drawn to polypeptides, classified in class 530, subclass 350.
  - III. Claim 33, drawn to antibodies, classified in class 530, subclass 387.1.
  - IV. Claims 39-41, drawn to a method of identifying an agent, classified in class 436, subclass 518.
- 2. The inventions are distinct, each from the other because of the following reasons:
- 3. Groups I-III are related as products. The products are different each from the other as they are comprised of different structural and functional features including nucleic acids, amino acids, heavy and light chains and are capable of hybridization, acting as an immunogen and directing an immune response.
- 4. Inventions I and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for using the cell line can be practiced with

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Alzheimer's brain tissue and the cell line can be used in the process of producing alternative fusion polypeptides via transfection of nucleic acid vectors.

- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. Because these inventions are distinct for the reasons given above and the search required for each of the groups is not required for any other group, restriction for examination purposes as indicated is proper.
- 7. This application contains claims directed to the following patentably distinct species of the claimed invention: hhsel-10 polynucleotides and polypeptides and hmsel-10 polynucleotides and polypeptides.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 2, 19, 21, 24, 32, 34 and 39 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the

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limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 8. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).
- 10. Any inquiry of a general nature or relating to the status of this general application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Papers relating to this application may be submitted to Technology Center 1600, Group 1640 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). Should applicant wish to FAX a response, the current FAX number for Group 1600 is (703) 308-4242.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to, Sharon L. Turner, Ph.D. whose telephone number is (703) 308-0056. The examiner can normally be reached on Monday-Thursday from 7:30-6:00 P.M.. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Kunz, can be reached at (703) 308-4623.

Sharon L. Turner, Ph.D. September 25, 2000

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UNITED S DEPARTMENT OF COMMERCE Patent and Trademark Office COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

09/328,877

SERIAL NUMBER FILING DATE FIRST NAMED APPLICANT

ATTORNEY DOCKET NO.

EXAMINER										
ART UNIT	PAPER NUMBER									

### Please find below a communication from the EXAMINER in charge of this application

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

Applicant is given ONE MONTH from the mailing date of this communication within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Turner whose telephone number is (703) 308-0056. If the examiner cannot be reached, inquiries can be directed to Supervisory Patent Examiner Gary Kunz whose telephone number is (703) 308-4623. The fax number for the organization where this application or proceeding is assigned is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Application No. 09/328, 877

## NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

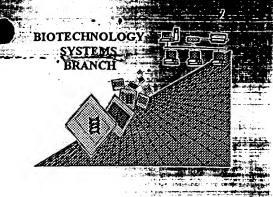
Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
X	7. Other: <u>Der attached Union report</u>
Ap	plicant Must Provide:
M	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
X	An initial or <u>substitute</u> paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
X	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
Fo	r questions regarding compliance to these requirements, please contact:
Fo	r Rules Interpretation, call (703) 308-4216 or CRF Submission Help, call (703) 308-4212 otentIn Software Program Support Technical Assistance703-287-0200
	To Purchase Patentin Software703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY





The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/328,877

Art Unit / Team No.:

0116

Date Processed by STIC:

6/28/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

**MARK SPENCER 703-308-4212** 



#### ERROR DETECTED SUGGESTED CORRECTION SERIAL NUMBER:

ATTI		The number flow to the and of each line Bureaged down to the part line
1	_ Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line.
		This may occur if your file was retrieved in a word processor after creating it.  Please adjust your debt margin to 3 on this will proved "tyrapping".
		Please adjust your right margin to .3, as this will prevent "wrapping".
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped " down to the next line.
~ —		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
3	_ Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
4	Misaligned Amino Acid	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
	Numbering	between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
		Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.
		As per the rules, each n or Xaa can only represent a single residue.
		Please present the maximum number of each residue having variable length and
		indicate in the (ix) feature section that some may be missing.
7	Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
·	ratentin ver. 2.0 bug	sequence(s) Normally, Patentin would automatically generate this section from the
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
-		to the subsequent amino acid sequence.
8	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:
		(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
,		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
		This sequence is intentionally skipped
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
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1		<400> sequence id number
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10 U	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in the Sequence Listing.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
		In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
11	Use of <213>Organism	Sequence(s) are missing this mandatory field or its response.
	(NEW RULES)	
12	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
		Please explain source of genetic material in <220> to <223> section.
		(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
13	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted
	•	file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
		Instead, please use "File Manager" or any other means to copy file to floppy disk. ` `
		AKS-Biotechnology Systems Branch- 5/15/99

44

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/328,877

\*\*DATE: 06/28/1999 TIME: 15:36:58

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This Raw Listing contains the General Information Section and up to first 5 pages.

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RAW SEQUENCE LISTING
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DATE: 06/28/1999

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12..... 13.30.30

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155	Glu	Ser	Leu	Lys	Gly		Asn	Thr	Glu	Asn		Gly	Phe	Tyr	GIA	
156	65				_,	_70 _	_		_		75	•	•	*** -	<b>01.</b> .	80
157	Leu	Lys	Met	Ile		Tyr	Lys	Met	Lys		гуз	ьeu	Asp	HIS	95	ser
158	<b>01</b>	**- 1	3	<b>a</b>	85	0	T 0.11	<b>~1</b>	T 1.00	90	Bro	Cva	Larg	บาไ		Glu
159	GIU	Val	Arg	100	Pne	ser	Leu	GIY	105	гур	PIO	Cys	цуз	110	361	Giu
160 161	ጥኒም	Thr	Sar		Thr	Glv	T.e.u	Val		Cvs	Ser	Ala	Thr		Thr	Thr
162	ıyı	1111	115	****	1111	011	LCu	120		0,70			125			
163	Phe	Gly		Leu	Arg	Ala	Ala		Gly	Gln	Gly	Gln		Arg	Arg	Arg
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170			•	180				_	185	_	_	_	_	190		_
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172	_ •	_	195	1	•		<b>5</b> 1	200	<b>a</b> 1	D	T	7	205	T 011	C1 5	7 J -
173	Ala	Leu	Tyr	vaı	Leu	ser		Leu	GIU	PIO	гуя	220	Leu	Leu	GIII	Ala
174	210	210 Gln	Thr	Cva	n ra	Tur	215 Trn	λνα	Tle	T.e.11	λla		Asp	Asn	Len	Leu
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177		Arg	Glu	Lvs	Cvs		Glu	Glu	Glv	Ile		Glu	Pro	Leu	His	
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188 189	7.00	Val	<i>c</i> 1	wie	325	C111	Clv	Va I	Trans.		Ser	Gln	Met	Δrα		Δan
190	rea	AGT	GTÅ	340	THE	GIY	Gry	AGT	345	201	J	··		350		
191	Tle	Ile	Ile		Glv	Ser	Thr	Asp		Thr	Leu	Lys	Val		Asn	Ala
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PATENT APPLICATION US/09/328,877

DATE:::06/28/1999 TIME:-15:36:58

Input Set: 1328877 RAW

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237		-1	DI.	35	•	10	T	<b>3</b>	40	<b>T</b>	3	774 -	~1-c	45	G1	77.0 7	N ====
238		TTE		ıyr	гÀг	met	гÀз		гла	ьeu	Asp	HIS		ser	GIU	val	arg
239		0	50 Dha		*	01	T	55	Dece	<b>~</b>	T	17- 1	60	C1	Т	Th ∽	Co~
240			rne	ser	ьeu	стХ		пÄв	PľO	cys	Lys		SEL	GIU	TÅL	THE	
241		65	mb	C1	T 0	17-1	70 Pro	<b>~</b> -~	00-	77-	mb~	75 Bro	Th∽	Th∽	Dha	Gl··	80
242		Inr	THE	GTÅ	neu		PLO	Cys	ser	WIG	Thr 90	PLO	IIII.	TILL	FIIG	95	vah
243 244	•	T.o.	A	- 1 מ	- נמ	85	G1	<u>را ۳</u>	Gl v	G1~	Gln	Δνα	Dr~	Δνα	Tla		Ser
477		Tea	wrg	WIG	WIG	HSII	GTÅ	GIII	GTÅ	GIII	GIII	ary	Arg	~rg	116	1-111	SET

VERGETCATION SUMMARY

PATIENT APPRICATION US/09/328,877:

TIMES

- DANES 06/23/1990 - TANES 15:36:53:

Input Set: I328877 RAW

Line ? Error/Warning

Original Text

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73 W "N" or "Xaa" used: Feature required
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